



SD/HD Ingest Solutions

Creator



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Optibase Creator is a unified, real-time ingest solution that streamlines the content creation process

Creator Ingest Server is the ideal content creation solution for post-production, video-on-demand creation, playout and file archiving. It integrates the essential components of the creation process into a single, unified platform. Optibase Creator offers cost saving by simplifying and reducing the asset creation time.

Integrated Process

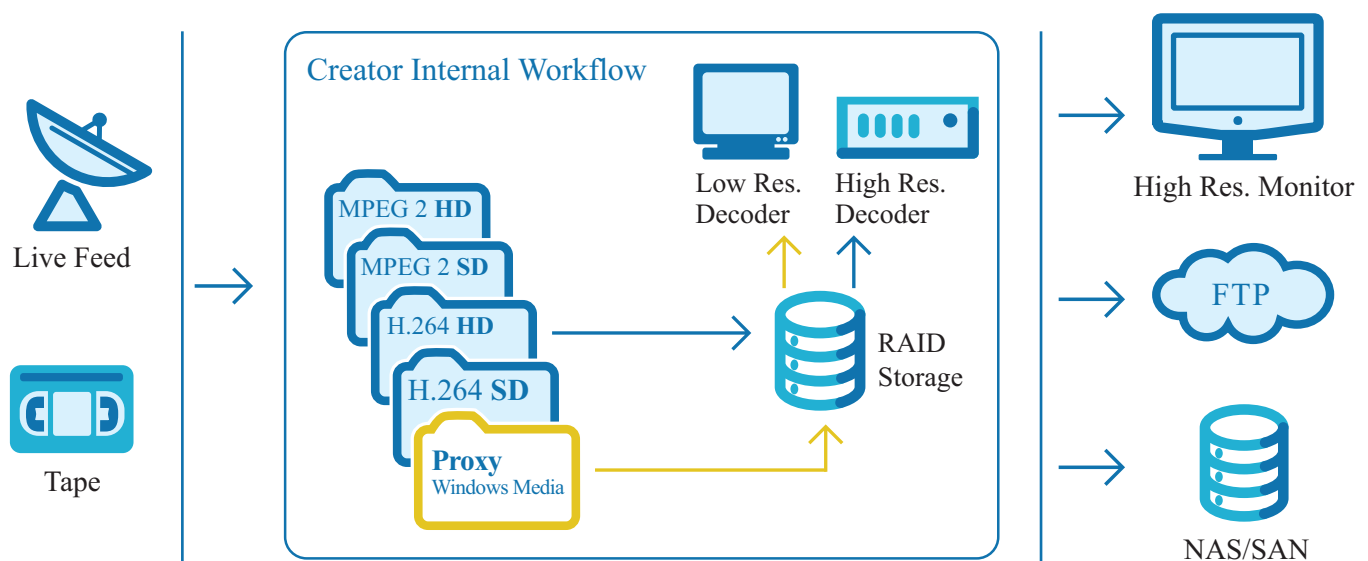
Creator Ingest Server is designed with a powerful, hardware-based encoding engine. This allows real-time processing of MPEG-2 and H.264 high definition (HD) and standard definition (SD) master files simultaneously with the low-resolution proxy copy. Using the Creator Real-Time Quality Control (QC) module, results can be verified during and following the encoding process. This creates a single pass procedure and provides significant savings on time and resources. The Creator also provides built-in support for closed caption in SD and HD formats.

Multiple Applications

The Creator supports MPEG-2 and H.264 high definition (HD) and standard definition (SD) video workflows by offering a single content creation platform for broadcasting applications. The Creator creates files that are compatible with the leading video servers vendors for playout, NLE and post production. It offers CableLabs VOD content and metadata compliancy as well as support for multiplexing formats such as QuickTime, MXF, program streams and transport streams.

Flexible Workflow

Creator Ingest Server is designed to fit seamlessly into your workflow. Whether you store your assets locally using the internal RAID storage or work with an external centralized storage solution (NAS/SAN), the Creator Ingest Server will write the files directly to your desired storage location. A comprehensive suite of player options provides intuitive and immediate access to the assets and offers viewing, in real-time or playback, of the generated material on a professional monitor or on the computer screen.



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Benefits

One-Time Ingest for Multiple Formats

Encodes the master digital file in one session, supporting leading video server file formats, NLE systems, QuickTime, MXF, program and transport streams

Flexible Interfaces

Captures data from tape, file or live feed sources in digital SD, HD or analog video

Real-Time Master and Proxy Encoding

Reduces costs and encoding time by creating high-resolution (Master) and low-resolution (Proxy) files concurrently

Real-Time Quality Control

Offers content validation as it is being created and allows playback of high-resolution video files stored either internally or externally

Built-In Closed Captions

Allows for a cost effective, one-click operation for EIA-708 closed captions insertion in addition to external support for EIA-608 closed captions

VOD Compliant

Reduces management time by saving metadata in XML format and transferring it directly to the VOD asset management

Creator Management



Scheduled Clips



Proxy Player



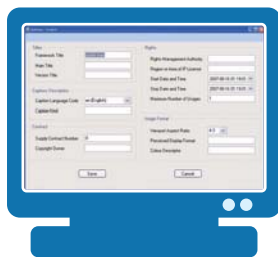
VOD Metadata



Master Player



Manual Clips



MXF DMX-1 Metadata

Applications

Post Production Systems - the Creator generates video content for non-linear editing on both SD and HD formats in highest broadcast quality

Playout Server - the Creator creates digital video files for on-line video server vendors

Video-On-Demand - the Creator encodes digital CableLabs compliant files along with related metadata accessible to the Asset Management system in addition to the Traffic system

File Archiving - the Creator produces video content at top broadcast quality (up to 150 Mbps) for digital file-based archiving and enables easy file search and retrieval for re-playing and re-editing

Features

- Video inputs: HD-SDI, SDI, Composite, Component
- Audio inputs: Embedded, AES, Analog
- Multi-format: MPEG-2 and H.264 high definition (HD) and standard definition (SD)
- Real time windows media proxy
- Frame accurate VTR control
- Real time MXF
- Real time quality control output
- Metadata editor
- Professional management application
- Interoperability with leading
 - NLE systems
 - Playout servers
 - Video On Demand servers
- Internal, redundant storage and NAS/SAN support

Creator

Technical Specifications

Inputs

Video

Composite
Component
SDI (SMPTE 259)
HD-SDI (SMPTE 292M)

Audio

Analog 2 x XLR - Stereo Audio
4 x AES/EBU digital audio inputs
Embedded audio - up to 8 stereo pairs (SMPTE 272M)

Outputs

Video Encoder

MPEG-2 422P@ML - 2 to 50 Mbit/s (in SD mode)
MPEG-2 MP@ML - 2 to 15 Mbit/s (in SD mode)
MPEG-2 MP@HL - 12 to 150 Mbit/s (720p and 1080i)
MPEG-2 422P@HL - 12 to 150 Mbit/s (720p and 1080i)
HD H.264 - 6 to 15 Mbits/sec (720P and 1080i)
SD H.264 - 500 Kbit/s to 3 Mbit/s
Windows Media 9 - 500Kbit/s to 2Mbit/s

Audio Encoder

Dolby Stereo 2.0
MPEG-1 Layer II
Dolby Digital AC-3 5.1 channel (pass-through)
Uncompressed linear PCM
AAC

Monitoring Output

Video

SDI (SMPTE 259)
HD-SDI (SMPTE 292M)

Audio

1 AES/EBU
Embedded audio

VBI

Closed captioning via SD

Supported HD Resolutions

1080 x 1920/1440/1280i 50, 59.94 fps
720 x 1280/960p 50, 59.94 fps
576 x 720/704i 25 fps
480 x 720/704i 30 fps

Interoperability leading Vendors

Content creation for NLE systems
Content creation for playout servers
Content creation for VOD servers
Content creation for archive

Advanced Features

Real-time proxy during ingest

Windows Media

Quality Control

QC monitoring during encode

Multiplexing

MXF (Material Exchange Format)

QuickTime

Transport Stream

Program Stream

Metadata

VOD CableLabs 1.1 and 2.0

MXF DMS-1

Closed Captioning

Built-in Closed Captioning EIA-708

Supports EEG BOX for EIA-608 and EIA-708

Control

VTR control via Sony 9-pin (RS-422a) interface

Hardware Configuration

Windows Server 2003

3x 500GB RAID 5 (1 Tera internal storage)

DVD Drive: DL Writer 16x

Ethernet: 2 x Gigabit Copper

HBA Fiber Channel for external storage (Optional)

Physical and Power

4RU 19" rack-mountable chassis

Depth: 33"

Power: 100 - 120Vac / 220 - 240Vac

Hot-swappable and redundant power supplies

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